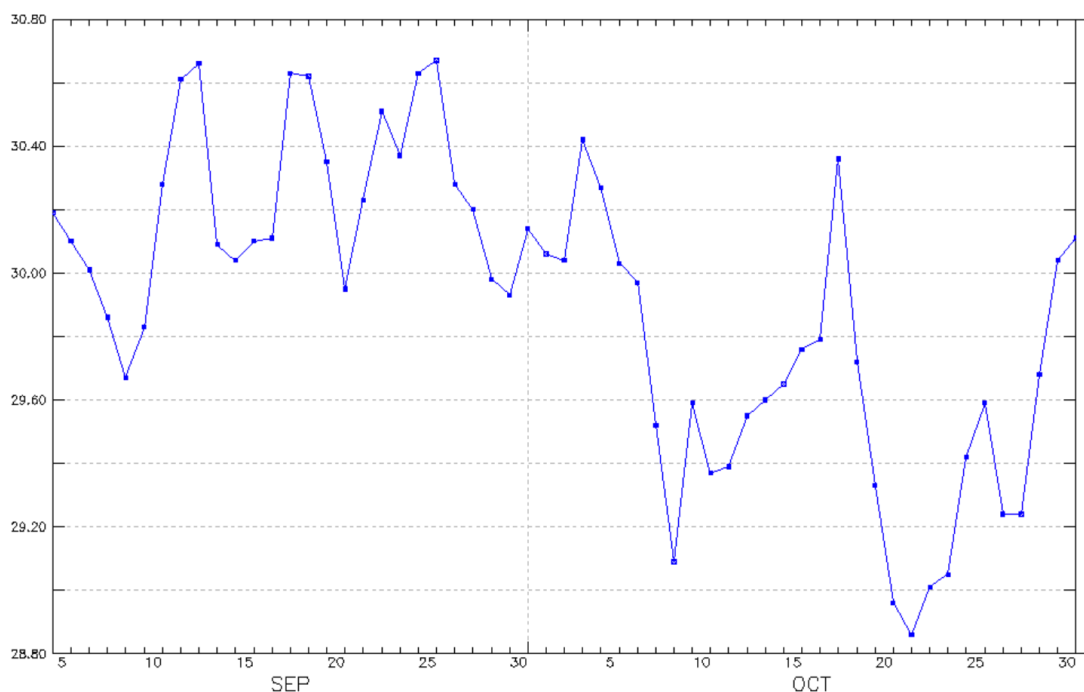


NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ CLASS: \_\_\_\_\_

MY NASA DATA: Coral Bleaching in the Caribbean  
[http://mynasadata.larc.nasa.gov/?page\\_id=474?&passid=51](http://mynasadata.larc.nasa.gov/?page_id=474?&passid=51)

Part 1: Use the following time series plot to answer the questions at the end of this packet.

Plot 1 –Daily Sea Surface Temperature (GHR SST) in degrees Celsius over the time period September 25, 2005 to October 31, 2005 (location: 18N, 65W).



### Instructions and Questions:

1. On the temperature graph, use your ruler and a blue colored pencil to draw a horizontal line at 30C. Did the sea surface temperature exceed 30C at any time during your time series? Using a red colored pencil, carefully shade the area between the SST line on the plot and the blue line you drew.
2. The line you drew represents the observed temperature criteria for coral bleaching to occur. Examine your red-shaded areas. For what period of time was the SST equal to or higher than the bleaching threshold? Was it long enough to cause coral bleaching? Do you think it was long enough to cause massive coral die off?